



August 9, 2022

Mr. Paul Mitzlaff
Lindsay Precast
3090 East Las Vegas Street
Colorado Springs, CO 80906

Subject: Glen at Widefield – POA Annu Intersection – El Paso County, CO

Dear Mr. Mitzlaff:

This letter is to explain the design process and specifications used for the design of the 3'-0" span x 2'-0" rise precast box culvert at the POA Annu Intersection in El Paso County Colorado.

The box culvert was designed for 0' to 2' maximum cover. The design was completed using Eriksson Culvert and was based on the American Association of State Highway and Transportation Officials "LRFD Bridge Design Specification", 9th Edition. The live load used for the design was HL-93 live load.

The design methodology and minimum steel (including distribution steel) used for this design was based on ASTM C1577, Standard Specification for Precast Reinforced Concrete Monolithic Box Sections for Culverts, Storm Drains, and Sewers Designed According to AASHTO LRFD.

It is recommended and assumed that the box culvert will be installed based on ASTM C1675, Standard Practice for Installation of Precast Reinforced Concrete Monolithic Box Sections for Culverts Storm Drains, and Sewers.

Based on the above design and installation specifications/methodology and calculations performed by Pretek Group, it is our opinion that the box culvert will meet the project specifications and requirements.

Please let me know if you there are any further questions or concerns about the design on this structure.

Sincerely,

Tom Nicholson, PE
Pretek Group



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